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**Education:**

1973 - University of Agricultural Sciences, Bangalore, India, B.Sc. (Agri). Agriculture.

1975 - University of Agricultural Sciences, Bangalore, India, M.Sc. (Agri). Agronomy.

1987 - The Ohio State University, Columbus, Ohio, Ph.D. Agronomy/Weed Science.

**Experience:**

1987 to 1988: Postdoctoral Research Associate, Department of Plant and Soil Sciences, University of Massachusetts at Amherst, MA.

1988 to 1991: Postdoctoral Research Associate, Department of Horticulture, University of Illinois at Urbana-Champaign, IL.

1991 to 1992: Postdoctoral Research Associate, Citrus Research and Education Center, University of Florida, Lake Alfred, FL.

1992 to 1997: Postdoctoral Research Associate, USDA-ARS, Southern Weed Science Research Unit, Stoneville, Mississippi.

1997 to 2010 Research Plant Physiologist, USDA-ARS, Crop Production Systems Research Unit, Stoneville, Mississippi.

2011 to present Research Leader, USDA-ARS, Crop Production Systems Research Unit, Stoneville, Mississippi.

**Adjunct Professor:** Mississippi State University.

**Professional Society Memberships:**

Weed Science Society of America, Southern Weed Science Society, Mississippi Weed Science Society, International Weed Science Society, Indian Society of Weed Science

**Honors and Awards:**

2002: Research Award, Mississippi Weed Science Society.

2004: Education Award, Mississippi Weed Science Society.

2005: Fellow, Indian Society of Weed Science.

2008: Outstanding Research Award, Weed Science Society of America.

2010: Fellow, Weed Science Society of America

2011: Weed Scientist of the Year, Southern Weed Science Society

**Professional Society Activities:**

Dr. Reddy has served and is serving on various committees of professional societies.

Associate Editor: Weed Technology, 2004-2011. Peer reviewer for: Several journals.

**Accomplishments:**

Dr. Reddy is a Research Plant Physiologist and a Lead Scientist of the Crop Production systems project. His current research deals with weed biology and integrated weed management systems

for soybean, corn, and cotton, and assessment of benefits and safety aspects of transgenic crops. The areas of research include conservation tillage, cover crops, narrow row and twin row spacing, crop rotations, herbicide-resistant crops, and herbicide drift. Shifts in weed species and populations as a consequence of changes in production practices and weed management systems are evaluated. Long-term impact of these production practices and weed management systems on soil properties, microbial ecology, and plant pathogens are being investigated in collaboration with other scientists. Dr. Reddy with his collaborators elucidated causes for glyphosate injury in Roundup Ready soybean and determined glyphosate effects on secondary metabolites and glyphosate metabolite accumulation. It was shown that 'yellow flashes' in glyphosate-resistant soybean were from aminomethylphosphonic acid, a metabolite of glyphosate. Also, demonstrated that reduced absorption and translocation of glyphosate as the cause for resistance in glyphosate-resistant horseweed and Italian ryegrass. Dr. Reddy devised strategies to reduce redvine and trumpetcreeper infestations by integrating glyphosate and fall subsoil. He has also conducted extensive research on herbicide uptake and translocation, herbicide interaction in soils and plant residues, herbicide foliar wash off, and QSAR modeling. Dr. Reddy has authored and co-authored 190 research articles, reviews, and book chapters, and 230 abstracts.

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